Timex Sinclair User Group NEWSLETTER

Ottawa Chapter
Volume I, Issue I

APRIL - JUNE '84

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MEETINGS

LOCATION: ALL MEETINGS ARE HELD AT THE NRC BLDG. 100 SUSSEX DR. ROOM 1120B. CHECK IN WITH SECURITY.
TIME: MEETINGS ARE HELD AT 8:00 PM. ON THE LAST THURSDAY OF EACH MONTH UNLESS OTHERWISE POSTED.
FORMAT: EACH MEETING WILL TAKE THE FOLLOWING FORMAT:

1)PRESIDENT'S INTRO. AND INTRO OF NEW MEMBERS.
2)SOFTWARE REVIEW (MAX. 20 MINUTES.)
3)HARDWARE REVIEW (MAX. 20 MINUTES.)
4)ADMINISTRATIVE BUSINESS IF REQUIRED.
5)ADJOURNMENT OF FORMAL PORTION OF THE MEETING.
6)INFORMAL: MEMBERS DISCUSS COMMON PROBLEMS,PROGRAMS ETC..

PRESIDENT'S ADDRESS

WITH THE INTODUCTION OF THE CLUB'S NEWSLETTER, I WOULD LIKE TO TAKE THIS OPPORTUNITY TO EXPRESS MY APPRECIATION TO THOSE OF YOU WHO HAVE CONTRIBUTED AND HOPEFULLY WILL CONTINUE TO CONTRIBUTE THEIR EFFORTS TO MAKE BOTH THE NEWSLETTER AND THE OPERATION OF THE CLUB SUCCESSFULL VENTURES. A SPECIAL THANKS TO RUSS EVOY, JIM HODGSON, BOB MULDER AND MICHAEL DOVE.
THE PRIMARY PURPOSE OF OUR CLUB IS THE MUTUAL EXCHANGE OF KNOWLEDGE AND EXPERIENCE WITH A VIEW TO ENHANCING OUR UNDERSTANDING OF THE USE OF COMPUTERS IN GENERAL AND SINCLAIR HARDWARE IN PARTICULAR. TO MY WAY OF THINKING, THIS CAN BEST BE ACCOMPLISHED BY THE ACTIVE PARTICIPATION OF THE MEMBERSHIP IN ONE OR MORE OF THE VARIOUS COMMITTEES. YOU MAY THINK YOUR TALENTS, ACHIEVEMENTS OR DISCOVERIES ARE TRIVIAL OR OF NO OBVIOUS APPLICATION BUT REMEMBER, THE BULK OF OUR CLUB MEMBERS ARE TYROS AND ARE VERY INTERESTED IN SHARING YOUR EXPERIENCES IN ORDER TO BROADEN THEIR OWN HORIZONS. PLEASE STEP FORWARD AND BE HEARD. CONTACT THE COMMITTEE CHAIRPERSON TO ARRANGE FOR YOUR CONTRIBUTION.
ON ANOTHER TOPIC, I WAS DISTRESSED TO HEAR THAT TIMEX HAS DECIDED TO VACATE THE HOME COMPUTER FIELD. IF YOU WERE NOT ALREADY AWARE, TIMEX WAS UNDER

LICENCE TO MANUFACTURE SINCLAIR-DESIGNED COMPUTERS FOR THE NORTH AMERICAN MARKET BUT THEIR DEPARTURE FROM THAT FIELD IN NO WAY DETRACTS FROM THE FUTURE AND VIABILITY OF THE SINCLAIR ORGANIZATION.

NO DOUBT THERE WILL BE A LARGE EXODUS OF US-BASED TIMEX SUPPORT ENTREPRENEURS FROM THE MARKET PLACE; MANY OTHERS HAVE ALREADY STATED THAT THEY WILL REMAIN TO CONTINUE SUPPORT FOR THE SINCLAIR COMPUTER LINE. BY THE WAY OF INTEREST, OVER TWO MILLION SPECTRUM COMPUTERS HAVE ALREADY BEEN SOLD AND THE MARKET FORECAST FOR THE RECENTLY INTRODUCED QL (QUANTUM LEAP) COMPUTER IS ENCOURAGING. HENCE SINCLAIR CORPORATION WILL BE AROUND FOR MANY YEARS TO COME AND YOUR INVESTMENT HAS NOT BEEN WASTED.

IN SUMMARY, I WOULD LIKE TO REITERATE HOW GRATIFYING IT IS TO BE ASSOCIATED WITH SUCH A DEDICATED AND INTERESTING GROUP. WITH YOUR ONGOING ACTIVE SUPPORT, THE CLUB WILL CONTINUE TO GROW AND EACH OF US WILL REAP THE BENEFITS. ANY SUGGESTIONS YOU HAVE TO IMPROVE THE OPERATION OR UTILITY OF THE CLUB WILL BE MOST APPRECIATED.

JOHN MATHEWSON
(PRESIDENT)

Letters to the EDITOR

(IN THIS CASE FROM)

FOR THE FIRST ISSUE THE EDITOR WILL TAKE THE LIBERTY OF MONOPOLISING THIS SPACE TO COVER ONGOING ISSUES THAT WILL BE PREVALENT IN FUTURE MEETINGS.

A) FOR THE PURPOSE OF PRESENTATIONS AT MEETINGS PLEASE FOLLOW THE RESTRICTIONS AS FOLLOWS:

- MAX.20 MINUTES
- KEEP PRESENTATIONS AS SHORT AS POSSIBLE.
- PROVIDE HANDOUTS IF POSSIBLE.
- LEAVE THE DETAILS OF THE PRESENTATION TO THE INFORMAL PORTION OF THE MEETING.

B) IN ORDER TO CREATE A PROPER MEMBERSHIP LIST AND SHOW INDIVIDUAL INTERESTS PLEASE FILL IN THE INFORMATION FORM ATTACHED; ITS FOR YOUR OWN BENEFIT NOT OURS.

C) FOR THIS NEWSLETTER TO BECOME A SUCCESS, INPUT IS REQUIRED FROM AS MANY MEMBERS AS POSSIBLE FOR SECTIONS: LETTERS TO THE EDITOR, SOFTWARE AND HARDWARE REVIEWS, GENERAL, AND PERSONALS. SHARE YOUR THOUGHTS AND SPREAD THE WEALTH.

D) I AM OPEN TO CONSTRUCTIVE ADDITIONS/DELETIONS TO THIS NEWSLETTER.

THE EDITOR

General

ELECTRONIC BULLETIN BOARDS

FOR THOSE MEMBERS WHO HAVE MODEMS OR CONTEMPLATE PURCHASING ONE, (byte-back has the best) THE FOLLOWING BULLETIN BOARDS, PARAMETERS AND RESTRICTIONS MIGHT BE OF INTEREST:

NAME	PARITY	RESTRICTION
GRAFFITTI	8N	Y/N
PUCOS	8N	N
E.T.WILSON	7E	Y
O.C.G.	8N	Y
BASKERVILLE	8N	Y
O.R.C.S.	8N	Y
B.A.C.	8N	N
O.B.E.	8N	N

ALL CAN BE USED INITIALLY FOR LIMITED FUNCTIONS SUCH AS READING PUBLIC MESSAGES, HOWEVER A MEMBERSHIP IS ADVISABLE TO OBTAIN THE FULL POTENTIAL OF THE BBS. IN SOME CASES ITS FREE. CONTACT THE EDITOR FOR MORE INFORMATION ON RESTRICTIONS, TELEPHONE NUMBERS ETC. IF YOU ARE SERIOUSLY INTERESTED.

SOFTWARE/HARDWARE REVIEWS

FOR THIS FIRST ISSUE, THERE IS NO SOFTWARE OR HARDWARE REVIEW AVAILABLE. HOWEVER, SEE THE ATTACHED REVIEW ON THE NEW SINCLAIR QT COMPUTER. THIS ARTICLE WAS TAKEN OUT OF THE LATEST ISSUE OF COMPUTERS AND ELECTRONICS.
FUTURE ISSUES OF THE NEWSLETTER WILL FEATURE INPUT FROM THE CLUB MEMBERS, GOD AND MEMBERS PERMITTING. PLEASE SEND YOUR INPUT SOON. (WHERE ARE YOU RUSS AND JIM ?)

Personals

2068 Full Screen Input

2068- JIM TURNER

HERE IS A SUBROUTINE FOR THE 2068 TO SIMULATE THE FULL SCREEN INPUT FEATURE OF MOST OTHER COMPUTERS.
IT WAS ORIGINALLY WRITTEN FOR MY SON TO PRACTICE HIS SCHOOL SPELLING. OFTEN, THESE EXERCISES REQUIRED THAT WHOLE SENTENCES BE TYPED IN AND CHECKED FOR CORRECTNESS AGAINST A MASTER LIST (DATA) , BUT THE OMISSION OF A PERIOD OR AN ACCENT WOULD NECESSITATE THE RETYPING OF THE WHOLE SENTENCE USING THE TS INPUT ROUTINE. WITH 'FULL SCREEN INPUT', A WRONG ENTRY ONLY PRODUCES A BUZZER AND THEN RETURNS TO THE INPUT ROUTINE AND MERE EDITING IS REQUIRED - AN ATTRACTIVE FEATURE FOR MY SON.
ALL PRESENT EDITING FEATURES ARE SUPPORTED: MOVE RIGHT/LEFT, CAPS SHIFT, GRAPHICS, DELETE.
FULL SCREEN INPUT HAS BEEN WRITTEN AS A SUBROUTINE WHICH NEEDS TO BE SUPPLIED WITH VALUES FOR 'X' AND 'C' (LINE AND COLUMN) BEFORE CALLING. IT RETURNS A$ TO DEAL WITH AS YOU LIKE. THERE IS PLENTY OF ROOM FOR IMPROVEMENTS AND ADDITIONS: WORD WRAP, AN UNDERLINE CURSOR, AN INVERSE VIDEO FEATURE. AS YOU SEE IT HERE, IT WORKS.

```
  10 REM FULL SCREEN INPUT
         BY Jim Turner
  11 LET a$="": LET y=1
  15 PRINT AT x,c; FLASH 1;"L"
  25 LET i$=INKEY$: IF i$="" THE
N GO TO 20
  30 IF i$=CHR$ 8 THEN GO TO 200
  40 IF i$=CHR$ 9 THEN GO TO 300
  50 IF i$=CHR$ 12 THEN GO TO 40
0
  60 IF i$=CHR$ 13 THEN GO TO 60
0
  70 IF i$=CHR$ 15 THEN GO TO 50
0
  80 IF CODE I$<32 THEN GO TO 20
  95 LET a$=a$( TO y-1)+i$+a$(y
TO ): LET y=y+1
```

```
 100 REM PRINT TO SCREEN
 101 PRINT AT x,C;a$( TO y-1); F
LASH 1;"L"; FLASH 0;a$(y TO );"
"
 105 BEEP .005,20
 110 GO TO 20
 200 REM MOVE LEFT
 201 LET i$=""
 210 LET y=y-(1 AND y>1)
 220 GO TO 100
 300 REM MOVE RIGHT
 301 LET i$="": LET y=y+(y<=LEN
a$)
 310 GO TO 100
 400 REM DELETE
 405 LET y=y-(1 AND y>1)
 410 LET a$=a$( TO y-1)+a$(y+1 T
O )
 420 GO TO 100
 500 REM GRAPHICS
 501 PRINT AT x,C;a$( TO y-1); F
LASH 1;"G"; FLASH 0;a$(y TO )
 510 LET i$=INKEY$: IF i$="" THE
N GO TO 510
 520 PAUSE 20: LET i$=CHR$ (CODE
 (i$)+47)
 530 GO TO 95
 600 PRINT AT x,0;a$;" "
 610 RETURN
```

Canadian Mortgage Table

```
   5 REM "MORTGAGE"
  10 PRINT "
                                  "
  20 PRINT "    CANADIAN MORTGAG
E TABLE       "
  30 PRINT "
                                  "
  40 PRINT AT 10,2,"  ENTER MORT
GAGE AMOUNT"
  50 INPUT A
  60 PRINT AT 10,2,"ENTER ANNUAL
 INTEREST RATE"
  70 INPUT B
  80 LET B=(1+B/200)**(1/6)-1
  90 PRINT AT 10,2,"  ENTER DURA
TION IN YEARS "
 100 INPUT C
 110 LET C=12*C
 120 CLS
 130 LET R=(A*B*(1+B)**C)/((1+B)
**C-1)
 140 LET R=.01*INT (.5+100*R)
 150 GOSUB 250
 160 FOR X=1 TO C
 170 LET I=A*B
 180 LET P=R-I
 190 LET L=A-P
 200 PRINT TAB 2;X,TAB 7;.01*INT
 (.5+100*I);TAB 15;.01*INT (.5+1
00*P);TAB 24;.01*INT (.5+100*L)
 210 IF PEEK 16442<=5 THEN GOSUB
 290
 220 LET A=A-P
 230 NEXT X
 240 STOP
 250 PRINT "PAYMENT   PAYMENT ON
    BALANCE"
 260 PRINT " NUM.  INTER. PRINCI
PAL OF LOAN"
 270 PRINT "
                                  "
 280 RETURN
 290 PRINT AT 21,2;"PRESS ""ENTE
R"" KEY TO CONTINUE"
 300 INPUT R$
 310 CLS
 320 GOSUB 250
 330 RETURN
```

Cryptogram

```
  10 REM   CRYPTOGRAM
           (8500 BYTES)
  20 REM
 "CRYPTOGRAM" IS BASED ON AN
 IDEA IN THE FEBRUARY 1984
 EDITION OF "BYTE" MAGAZINE
 (PP.383-386), ALTHOUGH THIS
 LISTING BEARS LITTLE RESEMB-
 LANCE TO THE LISTING IN THAT
 ARTICLE, AND IN FACT IS A MUCH
 IMPROVED LISTING.
 THIS LISTING TAKES ADVANTAGE
 OF THE ZX-81"S MUCH SUPERIOR
 STRING-HANDLING CAPABILITIES.

 IF YOU HAVE PROBLEMS, COMMENTS
 OR SUGGESTIONS, PLEASE CONTACT
 ME AT THE ZX-SINCLAIR USERS
 CLUB, THROUGH THE NEWLETTER,
 OR BY PHONING ME AT 820-8079

        -- LEO FOSS --

  40 SLOW
  50 GOSUB 1440
  60 LET P$="
                                  "
 120 PRINT AT 10,5;"TYPE THE CRY
PTOGRAM."
 130 INPUT S$
 140 GOSUB 1060
 150 LET Z$=S$
 160 GOSUB 0430
 170 CLS
 180 PRINT "ORIGINAL TEXT (";C$;
"CHARACTERS)"
 190 GOSUB 1260
 200 PRINT P$
 210 PRINT "FIVE MOST FREQUENT L
ETTERS ARE:"
 220 PRINT CHR$ (P(1)+127);":";N
(1);"  ";CHR$ (P(2)+127);":";N(2
);"  ";CHR$ (P(3)+127);":";N(3);
"  ";CHR$ (P(4)+127);":";N(4);"
 ";CHR$ (P(5)+127);":";N(5)
 230 PRINT P$
 240 PRINT "UNUSED LETTERS:"
 250 FOR I=1 TO 36
 260 IF R(I)=0 THEN GOTO 0290
 270 PRINT CHR$ R(I);",";
 280 NEXT I
 290 PRINT TAB 0;P$
 300 PRINT "SCRATCHPAD"
 310 GOSUB 1290
 320 GOTO 0820
 330 SLOW
 340 PRINT AT 20,0;"ENTER THE L
ETTER TO BE CHANGED"
 350 INPUT A$
 360 PRINT AT 20,0;"ENTER THE
LETTER IT IS TO BE
HANGED TO"
 370 INPUT B$
 380 GOSUB 0670
 390 FOR Y=1 TO LEN Z$
 400 IF Z$(Y)=A$ THEN LET Z$(Y)=
B$
 410 NEXT Y
```

```
 420 GOTO 0160
 440 CLS
 450 DIM A(95)
 460 DIM P(5)
 470 DIM N(5)
 480 DIM R(36)
 490 SLOW
 500 PRINT AT 10,5;;"COUNTING TH
E LETTERS"
 510 FOR Y=1 TO 30
 520 NEXT Y
 530 FAST
 540 FOR Y=1 TO LEN S$
 550 LET A(CODE Z$(Y)+1)=A(CODE
Z$(Y)+1)+1
 560 NEXT Y
 570 GOSUB 0740
 580 FOR Y=1 TO 5
 590 FOR X=12 TO 64
 600 IF A(X)<N(Y) THEN GOTO 0630
 610 LET N(Y)=A(X)
 620 LET P(Y)=X
 630 NEXT X
 640 LET A(P(Y))=0
 650 NEXT Y
 660 RETURN
 680 FOR Y=1 TO LEN S$
 690 IF Z$(Y)=B$ THEN GOTO 0720
 700 NEXT Y
 710 RETURN
 720 PRINT AT 20,0;"THAT LETTER
IS ALREADY USED IN    THE SCRATC
HPAD, USE ANOTHER,    "
 730 GOTO 0370
 750 LET X=0
 760 FOR Y=39 TO 64
 770 IF A(Y)<>0 THEN GOTO 0800
 780 LET X=X+1
 790 LET R(X)=Y-1
 800 NEXT Y
 810 RETURN
 830 SLOW
 840 PRINT AT 20,0;"SWAP(S) OR
REPLACE(R) LETTERS ?"
 850 IF INKEY$="R" THEN GOTO 033
0
 860 IF INKEY$="S" THEN GOTO 088
0
 870 GOTO 0820
 880 FAST
 890 PRINT AT 20,0;"ENTER TWO LE
TTERS TO BE SWAPPED,"
 900 INPUT A$
 910 IF LEN A$<>2 THEN GOTO 0900
 920 LET B$="XX"
 930 FOR I=1 TO LEN S$
 940 IF Z$(I)=A$(1) THEN LET B$(
1)="O"
 950 IF Z$(I)=A$(2) THEN LET B$(
2)="O"
 960 NEXT I
 970 IF B$="OO" THEN GOTO 1010
 980 PRINT AT 20,0;"""";(A$(1) A
ND B$(1)="X");(A$(2) AND B$(2)="
X");""" NOT FOUND IN SCRATCHPAD
    "
 990 PAUSE 150
1000 GOTO 0890
1010 IF LEN A$<>2 THEN GOTO 0880
1020 FOR I=1 TO LEN S$
1030 IF Z$(I)=A$(1) OR Z$(I)=A$(
2) THEN LET Z$(I)=(A$(1) AND Z$(
I)=A$(2))+(A$(2) AND Z$(I)=A$(1)
)
1040 NEXT I
1050 GOTO 0160
1070 LET C$=STR$ LEN S$
1080 FOR X=1 TO LEN C$
1090 LET C$(X)=CHR$ (CODE C$(X)+
128)
1100 NEXT X
1120 IF LEN S$<33 THEN RETURN
1130 DIM X(10)
1140 LET X(1)=1
1150 LET X(2)=32
1160 FOR Y=1 TO 8
1170 FOR Z=X(Y+1) TO X(Y) STEP -
1
1180 IF S$(Z)<>" " THEN GOTO 122
0
1190 LET X(Y+1)=Z
1200 IF LEN S$<X(Y+1)+32 THEN RE
TURN
1210 GOTO 1230
1220 NEXT Z
1230 LET X(Y+2)=X(Y+1)+33
1240 NEXT Y
1250 RETURN
1270 LET Y$=S$
1280 GOTO 1300
1290 LET Y$=Z$
1300 IF LEN S$>32 THEN GOTO 1330
1310 PRINT Y$
1320 RETURN
1330 PRINT Y$(1 TO X(2))
1340 IF LEN Y$(X(2) TO )>=32 THE
N GOTO 1370
1350 PRINT Y$(X(2)+1 TO )
1360 RETURN
1370 FOR Y=2 TO 10
1380 PRINT Y$(X(Y)+1 TO X(Y+1)-1
)
1390 IF LEN Y$>X(Y+1)+32 THEN GO
TO 1420
1400 PRINT Y$(X(Y+1)+1 TO )
1410 RETURN
1420 NEXT Y
1430 RETURN
1450 CLS
1460 PRINT AT 9,7;"
";TAB 7;"  ";TAB 20;"  ";TAB 7;"
                    "
1470 LET A$="CRYPTOGRAM CRYPTOGR
AM"
1480 FOR X=1 TO 3
1490 FOR Y=1 TO 11
1500 PRINT AT 10,8;A$(Y TO Y+10)
1510 NEXT Y
1520 NEXT X
1530 FOR X=1 TO 50
1540 NEXT X
1550 CLS
1560 RETURN
1580 CLEAR
1590 SAVE "CRYPTOGRAM"
1600 RUN
```

Programing Tips

1. REMEMBER TO ENTER "NEW" AFTER POKING A NEW VALUE FOR RAM TOP.

2. TO USE A LOG FUNCTION RATHER THAN THE NATURAL LOG FUNCTION ON THE COMPUTER, USE THE FOLOWING CONVERSION:

   LOG A = 0.43429448*LN A

   OR =LN A/LN 10

3. TO USE TRIGONOMETRIC FUNCTIONS WITH ANGLES EXPRESSED IN DEGREES RATHER THAN RADIANS USE THE FOLLOWING CONVERSION

4. IF A IS IN DEGREES E.G. 90° THEN ENTER A*PI/180
   E.G. SIN(A*D) WHERE D=PI/180

5. YOU CAN ENTER VARIABLE VALUES IN THE "DIRECT MODE" WITHOUT USING LINE NUMBERS AS LONG AS YOUR PROGRAM IS MADE TO AUTO-RUN SO THAT THEY AR NOT WIPED OUT

6. YOU CAN PROTECT A REM STATEMENT CONTAINING MACHINE CODE FROM ACCIDENTAL "OVERWRITING" DURING THE DEVELOPMENT OF YOUR PROGRAM BY SETTING ITS LINE NUMBER TO ZERO. THIS IS DONE BY THE FOLOWING

   POKE 15510,0

CLUB MEMBERS

*COWDREY DENNIS
2174 HAMELIN CR
GLOUCESTER ONT.

*HODGSON JIM
57 MELANIE
KANATA ONT.

*MATHEWSON JOHN
1852 APPLEFORD ST.
GLOUCESTER ONT.

*BALDWIN LARRY
2619 DON ST.
OTTAWA ONT.

*BOULRICE YVON
35 ROUVILLE
HULL QUE.

*CHILDS CHRISTOPHER
539 THESSALY CIRCLE
OTTAWA ONT.

*RODEGHIERO A
6-40 CRUIZE
PT. GATINEAU QUE.

*KENNEDY ROBERT
39 CATHCART ST.
OTTAWA ONT.

*SZATA AL
1623 HERON RD.
OTTAWA ONT.

*WILSON DAVID
200 MARIPOSA AVE.
OTTAWA ONT.

*MULDER ROELOF
648 JOANISSE ST.
GATINEAU QUE.

*EVOY RUSS
195 HOLMWOOD AVE.
OTTAWA ONT.

*MOIZER DAVID
16 HILL ST. BOX 14
MANOTIC ONT.

*GOODWIN GREG
59 ARGYLE AVE.
OTTAWA ONT.

*ARSENAULT BOYD
408-170 LEES AVE.
OTTAWA ONT.

*FOSS LEO
2402-1171 AMBLESIDE
OTTAWA ONT.

*MACKAY RAY
174 NEPEAN ST.
OTTAWA ONT.

*MACPHERSON RON
1622 FEATHERSTON
OTTAWA ONT.

*LOOKER ARTHUR
37 KAYMAR DR.
GLOUCESTER ONT.

*GLOVER STEVE
2651 SOUTHVALE
OTTAWA ONT.

*CANO MIKE
1474 LEXINGTON
OTTAWA ONT.

*BOND JACK
BOX 157
MANOTICK ONT.

*VINCENT JOHN
1 WEATHERWOOD
NEPEAN ONT.

*TURNER JIM
30 CR. DE LA PAIX
AYLMER QUE.

*SWICKIS ROGER
30-223 SOMERSET W.
OTTAWA ONT.

*MINUK BERRY
903-335 MACLAREN
OTTAWA ONT.

*MOORE ALAN
203D CRAIG HENRY
NEPEAN ONT.

*DOVE MICHAEL
407-11 MONTFORT
VANIER ONT.

*HOLGATE BUD
569 LAVERANDRYE
GLOUCESTER ONT.

*LEMAY MARCEL
1428 LASSITER
GLOUCESTER ONT.

*DOYLE GERRY
402-30 ELEANOR
OTTAWA ONT.

*GLOVER ROGER
BOX 222
OSGOODE ONT.

*VACHON PIERRE
PO. BOX 338
GREELY ONT.

*FLORIDA NIGEL
3-307 CAMBRIDGE N.
OTTAWA ONT.

*WIELAND DAVID
34 LEWIS ST.
OTTAWA ONT.

*OGILVIE CHARLES
49 ARGUE DR.
NEPEAN ONT.

*CACCIATO JOE
38-5TH AVE.
OTTAWA ONT.

*CHAPLIN DEREK
25 ROCKWAY CRES. $9
NEPEAN ONT.

*ATTOE KEITH
2699 DUPONT
OTTAWA ONT.

*SHOIHET NORM
1497 MEADOWBROOK RD.
GLOUCESTER ONT

*DARRACH PETER
19 PARKMOUNT CR.
NEPEAN ONT

*TOWNSHEND AL
UNIT 55 211 MONTREAL RD.
GLOCESTER ONT.

*VERNET T
104 PUTMAN AVE.
OTTAWA ONT.

*LERMAN J
59 NAISMITH CRES.
KANATA ONT.

*DAGG M
BOX 9211
OTTAWA ONT

*STUDHOLME CHRIS
712-860 BLACKTHORNE
OTTAWA ONT

*DESROCHERS G. RENE
76 DELANAUDIERE ST.
HULL QUE

*ROACH MIKE
2541 ROMAN AVE.
OTTAWA ONT

*RAYMOND-JONES COLIN
27 LAIRD ST
NEPEAN ONT

*WIECKOWSKI TAD AND ALEX
1751 MEADOWBROOK RD
GLOUCESTER ONT